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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/760,993	01/20/2004	William Gale	N0164 US	1636
37583	7590	02/10/2006	EXAMINER	
NAVTEQ NORTH AMERICA, LLC 222 MERCHANDISE MART SUITE 900, PATENT DEPT. CHICAGO, IL 60654			WEISKOPF, MARIE	
			ART UNIT	PAPER NUMBER
			3661	

DATE MAILED: 02/10/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/760,993	Applicant(s) GALE ET AL.	
	Examiner Marie A. Weiskopf	Art Unit 3661	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 January 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) 1-46 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 12-32 is/are allowed.
- 6) ☒ Claim(s) 1,3,4,6,9-11 and 33-46 is/are rejected.
- 7) ☒ Claim(s) 2,5,7 and 8 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 20 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>4/23/04</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 3-4, 6, 9-10, and 33-40 are rejected under 35 U.S.C. 102(b) as being anticipated by Israni et al (US 6,308,177.) Israni et al discloses a system and method for use and storage of geographic data on a physical media comprising:

- In regard to claim 1, a computer-readable medium having computer readable data stored thereon for representing geographic features in a geographic region, the computer readable data comprising:
 - Data entities that represent geographic features located in the geographic region (Column 28, lines 56-65)
 - A plurality of drawcodes, wherein each drawcode represents a unique combination of attributes associated with the geographic features represented by the data entities, and wherein each of the data entities that represent the geographic features is associated with one of the drawcodes, and wherein each drawcode is associated with information that identifies drawing characteristics for rendering the geographic features represented by the data entities associated therewith. (Column 6, line 33 – column 7, line 7) Israni et al discloses having a single index

reference to a table of records for features with the same attributes.

(Column 28, line 66 – Column 29, line 5)

- In regard to claim 3, wherein each drawcode represents a collection of database attributes associated with the data entities. (Column 6, line 34 – column 7, line 7)
- In regard to claim 4, further comprising header data that identifies the geographic region. (Column 22, lines 11-13)
- In regard to claim 6, the data entities are grouped into a plurality of parcels based on geographic location of the geographic features represented by the data entities. (Column 11, lines 1-18)
- In regard to claim 9, each drawcode is associated with a unique combination of rank, road type, and road attribute associated with the data entities that represent geographic features. (Column 6, line 46 – Column 7, line 8)
- In regard to claim 10, the geographic features represented by the data entities include roads. (Column 6, line 46 – Column 7, line 8)
- In regard to claim 11, the geographic features represented by the data entities include 2-dimensional and 3-dimensional geographic features. Israni et al discloses having roads and points of interests, such as hotels, as geographic features which would be both 2-dimensional and 3-dimensional. (Column 6, line 44 – Column 7, line 11)
- In regard to claim 33, a method for displaying images of portions of a geographic region on a computer display, wherein the images portray geographic features located in the geographic region (Column 9, lines 51-65), the method comprising:

Art Unit: 3661

- Reading from a computer readable database stored on a computer readable medium a group of data entities, wherein the data entities represent the geographic features, and wherein each data entity in the group has an associated drawcode which defines a combination of attributes associated with the represented geographic feature, the drawcode being associated with information that identifies drawing characteristics for rendering the represented geographic feature (Column 6, line 33 – column 7, line 7) Israni et al discloses having a single index reference to a table of records for features with the same attributes. (Column 28, line 66 – Column 29, line 5)
- Rendering on the computer display images of the geographic features that correspond to the data entities in the group (Column 5, line 30)
- In regard to claim 34, further comprising determining a portion of the geographic region to be displayed. (Column 5, lines 55-58)
- In regard to claim 35, further comprising locating the group of data entities on the computer readable database. (Column 7, line 56 – Column 8, line 22)
- In regard to claim 36, the reading from the computer readable database stored on the computer readable medium the group of data entities comprises reading data associated with the geographic features and reading the associated drawcodes. (Column 30, lines 18-34)

Art Unit: 3661

- In regard to claim 37, further comprising determining attributes of the geographic features represented by the data entities from the associated drawcodes. (Column 28, line 56 – Column 29, line 19)
- In regard to claim 38, wherein determining geographic features associated with the group of data entities comprises referencing a drawcode table to identify the geographic features associated with the group of data entities based on the associated drawcode of each data entity. (Column 28, line 56 – Column 29, line 19)
- In regard to claim 39, a computer readable medium having stored therein instructions for causing a processing unit to execute the method. (Column 5, lines 27-37)
- In regard to claim 40, the geographic features represented by the data entities include roads. (Column 6, line 49 – column 7, line 8)
- In regard to claim 41, the geographic features represented by the data entities include 2-dimensional and 3-dimensional geographic features. Israni et al discloses having roads and points of interests, such as hotels, as geographic features which would be both 2-dimensional and 3-dimensional. (Column 6, line 44 – Column 7, line 11)

Claim Rejections - 35 USC § 103

3. Claims 42-46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Israni et al (US 6,308,177) in view of Twig et al (US 6,665,676.) Twig et al discloses a

Art Unit: 3661

method and system for presenting on-line “yellow pages” particularly in association with location data.

- In regard to claim 42, Israni et al discloses a system comprising:
 - A geographic data set stored on a computer readable medium, the geographic data set including data entities representative of geographic features in a geographic region, wherein each of the data entities is associated with one of a plurality of drawcodes, each of which represents a unique combination of attributes associated with a represented geographic feature (Column 6, line 44 – Column 7, line 8)
 - A navigation application for providing navigation features to an end user (Column 5, lines 38 – 48)
 - A processor operable to access the geographic data set to read a group of data entities and to execute the navigation application to display images on a computer display (Column 4, lines 54-67; Column 5, line 30)

Israni et al fails to disclose, however, the geographic features represented by data entities having the same drawcode are rendered with lines having the same color and thickness. Twig et al discusses having different types of streets and roads represented by different parameters such as color, thickness, etc. Roads having the same attributes would have the same parameters. (Column 10, line 57 – Column 11, line 3) It would have been obvious to one having ordinary skill in the art at the time of the invention to have attributes with the same features be drawn the same in order to let them have the same drawcode and also to be

easily recognizable by the user on what type of road or feature they are looking at.

- In regard to claim 43, Israni et al discloses further comprising a positioning system for determining a location in the geographic region, and wherein the processor accesses the geographic data set to retrieve data associated with the location. (Column 6, lines 44-67)
- In regard to claim 45, Israni et al discloses the geographic features represented by the data entities include roads. (Column 6, lines 44-67)
- In regard to claim 46, the geographic features represented by the data entities include 2-dimensional and 3-dimensional geographic features. Israni et al discloses having roads and points of interests, such as hotels, as geographic features which would be both 2-dimensional and 3-dimensional. (Column 6, line 44 – Column 7, line 11)

4. Claim 45 is rejected under 35 U.S.C. 103(a) as being unpatentable over Israni et al as applied to claim 42 above, and further in view of Ashby et al (US 6,038,559.)

Ashby et al discloses a segment aggregation in a geographic database and methods for use thereof in a navigation application.

- In regard to claim 45, Israni et al fails to specifically disclose a user interface coupled to the processor and operable to receive an input from a user. Ashby et al discloses a user interface with appropriate equipment that allows the end-user to input information into the navigation system. (Column 5, lines 46-59) It would have been obvious to one having ordinary skill in the art at the time of the

invention to allow the user to input data, such as the destination, in order to allow the user to quickly receive data and information on the location that they want to reach as is taught by Ashby et al.

Allowable Subject Matter

5. Claims 2, 5, and 7-8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
6. Claims 12 - 32 allowed. The following is a statement of reasons for the indication of allowable subject matter: the prior art, individually or in combination, fails to disclose, teach, or suggest organizing data entities on the computer-readable medium based on the drawcode of each data entity such that data entities with the same drawcode are grouped together.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - US 5,953,722 to Lampert et al discloses a method and system for forming and using geographic data
 - US 6,782,319 to McDonough discloses method for organizing map data

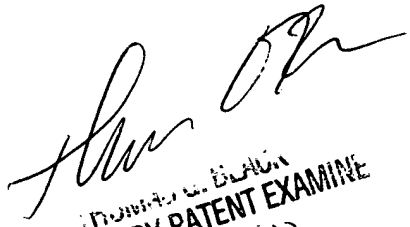
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marie A. Weiskopf whose telephone number is (571)

Art Unit: 3661

272-6288. The examiner can normally be reached on Monday-Thursday between 7:00 AM and 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black can be reached on (571) 272-6956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


THOMAS C. BLACK
SUPERVISORY PATENT EXAMINER
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